

11/16/01

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Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.

P.C. DAVIS 24-3

First Inventor

Paul C. Davis

Title

A BALANCING CIRCUIT, METHOD OF OPERATION THEREOF AND A CHARGE PUMP EMPLOYING THE SAME

Express Mail Label No.

EL843410441US

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:

Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 202311. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.3. ☒ Specification [ Total Pages 24 ]  
(preferred arrangement set forth below)  
- Descriptive title of the invention  
- Cross Reference to Related Applications  
- Statement Regarding Fed sponsored R & D  
- Reference to sequence listing, a table,  
or a computer program listing appendix  
- Background of the Invention  
- Brief Summary of the Invention  
- Brief Description of the Drawings ( if filed )  
- Detailed Description  
- Claim(s)  
- Abstract of the Disclosure4. ☒ Drawing(s) (35 U.S.C. 113) [ Total Sheets 2 ]

5. Oath or Declaration [ Total Pages ]

- a. ☐ Newly executed (original or copy)  
Copy from a prior application (37 CFR 1.63 (d))  
(for continuation/divisional with Box 18 completed)
- b. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s)  
named in the prior application, see 37 CFR  
1.63(d)(2) and 1.33(b).

6. ☐ Application Data Sheet. See 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or  
Computer Program ( Appendix )
8. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
- a. ☐ Computer Readable Form (CRF)
- b. Specification Sequence Listing on:
- i. ☐ CD-ROM or CD-R (2 copies); or
- ii. ☐ paper
- c. ☐ Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement [ Power of Attorney ]  
(when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure [ Copies of IDS ]  
Statement (IDS)/PTO-1449 [ Citations ]
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
16. ☐ Request and Certification under 35 U.S.C. 122  
(b)(2)(B)(i). Applicant must attach form PTO/SB/35  
or its equivalent.
17. ☐ Other: .....

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

Prior application Information:

Examiner

of prior application No.:

Group Art Unit:

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**19. CORRESPONDENCE ADDRESS**☒ Customer Number or Bar Code Label27964  
(Insert Customer No. or Attach bar code label here)

or

☒ Correspondence address below

Name

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Registration No. (Attorney/Agent)

39,615

Signature

Date

11/16/2001

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**FEE TRANSMITTAL  
for FY 2002**

Patent fees are subject to annual revision.

**TOTAL AMOUNT OF PAYMENT** (\$) **758.00****Complete if Known**

|                      |                 |
|----------------------|-----------------|
| Application Number   | N/A             |
| Filing Date          | Herewith        |
| First Named Inventor | Paul C. Davis   |
| Examiner Name        | N/A             |
| Group Art Unit       | N/A             |
| Attorney Docket No.  | P.C. DAVIS 24-3 |

**METHOD OF PAYMENT**

- 1.
- ☒
- The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

|                        |                                    |
|------------------------|------------------------------------|
| Deposit Account Number | 501735                             |
| Deposit Account Name   | Agere Systems Guardian Corporation |

- ☒
- Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17

☐ Applicant claims small entity status. See 37 CFR 1.27

- 2.
- ☐
- Payment Enclosed:

☐ Check ☐ Credit card ☐ Money Order ☐ Other**FEE CALCULATION****1. BASIC FILING FEE**

| Large Entity |          | Small Entity |          | Fee Description        | Fee Paid |
|--------------|----------|--------------|----------|------------------------|----------|
| Fee Code     | Fee (\$) | Fee Code     | Fee (\$) |                        |          |
| 101          | 740      | 201          | 370      | Utility filing fee     | 740.00   |
| 106          | 330      | 206          | 160      | Design filing fee      |          |
| 107          | 510      | 207          | 255      | Plant filing fee       |          |
| 108          | 710      | 208          | 370      | Reissue filing fee     |          |
| 114          | 160      | 214          | 80       | Provisional filing fee |          |

**SUBTOTAL (1)** (\$) **740.00****2. EXTRA CLAIM FEES**

|                    |    |         |   |   |                |       |          |       |
|--------------------|----|---------|---|---|----------------|-------|----------|-------|
| Total Claims       | 21 | -20** = | 1 | X | Fee from below | 18.00 | Fee Paid | 18.00 |
| Independent Claims | 3  | -3** =  | 0 | X | 84.00          | 0.00  | 0.00     |       |
| Multiple Dependent |    |         |   |   |                |       |          |       |

| Large Entity |          | Small Entity |          | Fee Description  |
|--------------|----------|--------------|----------|--|
| Fee Code     | Fee (\$) | Fee Code     | Fee (\$) |  |
| 103          | 18       | 203          | 9        | Claims in excess of 20                                     |
| 102          | 84       | 202          | 42       | Independent claims in excess of 3                          |
| 104          | 280      | 204          | 140      | Multiple dependent claim, if not paid                      |
| 109          | 84       | 209          | 42       | ** Reissue independent claims over original patent         |
| 110          | 18       | 210          | 9        | ** Reissue claims in excess of 20 and over original patent |

**SUBTOTAL (2)** (\$) **18.00**

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

| Large Entity                         |          | Small Entity |          | Fee Description  | Fee Paid |
|--------------------------------------|----------|--------------|----------|--|----------|
| Fee Code                             | Fee (\$) | Fee Code     | Fee (\$) |  |          |
| 105                                  | 130      | 205          | 65       | Surcharge - late filing fee or oath  |          |
| 127                                  | 50       | 227          | 25       | Surcharge - late provisional filing fee or cover sheet                     |          |
| 139                                  | 130      | 139          | 130      | Non-English specification  |          |
| 147                                  | 2,520    | 147          | 2,520    | For filing a request for <i>ex parte</i> reexamination                     |          |
| 112                                  | 920*     | 112          | 920*     | Requesting publication of SIR prior to Examiner action                     |          |
| 113                                  | 1,840*   | 113          | 1,840*   | Requesting publication of SIR after Examiner action                        |          |
| 115                                  | 110      | 215          | 55       | Extension for reply within first month                                     |          |
| 116                                  | 400      | 216          | 200      | Extension for reply within second month                                    |          |
| 117                                  | 920      | 217          | 460      | Extension for reply within third month                                     |          |
| 118                                  | 1,440    | 218          | 720      | Extension for reply within fourth month                                    |          |
| 128                                  | 1,960    | 228          | 980      | Extension for reply within fifth month                                     |          |
| 119                                  | 320      | 219          | 160      | Notice of Appeal   |          |
| 120                                  | 320      | 220          | 160      | Filing a brief in support of an appeal                                     |          |
| 121                                  | 280      | 221          | 140      | Request for oral hearing   |          |
| 138                                  | 1,510    | 138          | 1,510    | Petition to institute a public use proceeding                              |          |
| 140                                  | 110      | 240          | 55       | Petition to revive - unavoidable   |          |
| 141                                  | 1,280    | 241          | 640      | Petition to revive - unintentional   |          |
| 142                                  | 1,280    | 242          | 640      | Utility issue fee (or reissue)   |          |
| 143                                  | 460      | 243          | 230      | Design issue fee   |          |
| 144                                  | 620      | 244          | 310      | Plant issue fee  |          |
| 122                                  | 130      | 122          | 130      | Petitions to the Commissioner  |          |
| 123                                  | 130      | 123          | 130      | Processing fee under 37 CFR 1.17(q)  |          |
| 126                                  | 180      | 126          | 180      | Submission of Information Disclosure Stmt                                  |          |
| 581                                  | 40       | 581          | 40       | Recording each patent assignment per property (times number of properties) |          |
| 146                                  | 740      | 246          | 370      | Filing a submission after final rejection (37 CFR § 1.129(a))              |          |
| 149                                  | 740      | 249          | 370      | For each additional invention to be examined (37 CFR § 1.129(b))           |          |
| 179                                  | 740      | 279          | 370      | Request for Continued Examination (RCE)                                    |          |
| 169                                  | 900      | 169          | 900      | Request for expedited examination of a design application                  |          |
| Other fee (specify)                  |          |              |          |  |          |
| <b>SUBTOTAL (3)</b> (\$) <b>0.00</b> |          |              |          |  |          |

\*Reduced by Basic Filing Fee Paid

**SUBMITTED BY**

|                   |                   |                                   |                |                          |
|-------------------|-------------------|-----------------------------------|----------------|--------------------------|
| Name (Print/Type) | Glenn W. Boisbrun | Registration No. (Attorney/Agent) | 39,615         | Complete (if applicable) |
| Signature         |                   | Telephone                         | (972) 480-8800 | Date                     |
|                   |                   |                                   |                | 11/16/2001               |

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